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In addition to the change in the quantitative indexes, the very structure of the program was changed. In 1946, DIP-20-M lathes were produced; now, the more improved Model 1A62 at 1,200 revolutions per minute is being put out, while the manufacture of an even further improved model is being planned.(3)

A screw-cutting lathe with a speed of about 2,000 revolutions per minute has been designed. Its controls are simpler and it is more reliable in operation than Model 1A62.(4)

The average monthly wages have increased since 1946, and the output per worker increased 200 percent as compared with 1946.

More than 800 workers, more than 40 sections, and 14 shops at the plant are competing in the output of excellent-quality products.

At the beginning of the widespread development of high-speed metal cutting, Soviet technical literature recommended only cutters with negative rake. The theory was that in operating at high speeds, a temperature is built up in the cutting zone which softens a layer of metal and thus decreases the cutting stress. In practice, high-speed workers at the Moscow Krasny Proletary Plant and at laboratories have disproved this theory. Cutters with positive rake proved more practical and reliable.(5)

The drive to save metal will make it possible for the plant to reduce the consumption of steel in the manufacture of lathes by almost 500 tons in 1952. Dozens of high-speed screw-cutting lathes can be built from the saved metal.(2)

By mid-June, the Moscow Krasny Proletary Plant had manufactured 25 high-speed screw-cutting lathes for machine shops and auxiliary enterprises of the Stalingrad hydroelectric construction project and 20 such lathes for the Kuybyshev hydroelectric construction project.(1)

The Moscow Krasny Proletary Plant and plants in Kuybyshev, Gor'kiy, Tbilisi, Chkalov, and other machine-tool-building enterprises are sending dozens of types of metal-cutting machine tools, including a large number of the latest models, to Lithuania. Plants in Stavropol', Irkutsk, and Kurgan are furnishing woodworking equipment, including unique machine tools.(6)

The Krasny Proletary Plant has designed and manufactured two new types of special high-duty lathes for machining spherical raceways in large inner and outer bearing rings.

During the first 4 months of 1952, the enterprise perfected five new models of machine tools.(7)

By 18 June, the manufacture of new powerful lathes and automatics for an automatic transfer machine line for one of the plants of the bearing industry had been started, and the first machine tool for this line had been completed. Two more were being assembled.

At the same time, the plant was beginning to manufacture new semiautomatic machine tools including a cut-off semiautomatic for the tool industry.(4)

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SOURCES

1. Kiev, Pravda Ukrainy, 21 Jun 52
2. Moscow, Moskovskiy Komsomolets, 22 Jun 52
3. Ibid., 5 Jul 52
4. Moscow, Trud, 18 Jun 52
5. Vil'nyus, Sovetskaya Litva 21 Jun 52
6. Ibid., 1 May 52
7. Moscow, Pravda, 30 Apr 52

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